

COMMUNICABLE DISEASE CENTER



Vol. 15, No. 13

WEEKLY
REPORT

Week Ending
April 2, 1966

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE

CURRENT TRENDS MENINGOCOCCAL INFECTION

A total of 116 cases of meningococcal infection in the United States was reported for the week ending April 2, 1966, six cases less than were reported during the comparable week of 1965. The cumulative total of reported cases of meningococcal infection for the first 13 weeks of 1966 remains at levels slightly in excess of those recorded in 1965, and substantially above the preceding 5-year median figures (Figure 1). Some decline from these current seasonal high levels may be anticipated in the coming weeks.

There has been an overall increase of 14.8 percent in the total number of cases reported to date this year as

CONTENTS

Current Trends	
Meningococcal Infection	109
Measles	111
Epidemiologic Notes and Reports	
Paragonimiasis - Arkansas	110
Diphtheria - Detroit, Michigan	116

compared to the same period in 1965. In the past 5 weeks, 20 percent or more of all reported cases have occurred in California.

(Reported by Investigations Section, Epidemiology Branch, CDC.)

(Figure 1 on page 110)

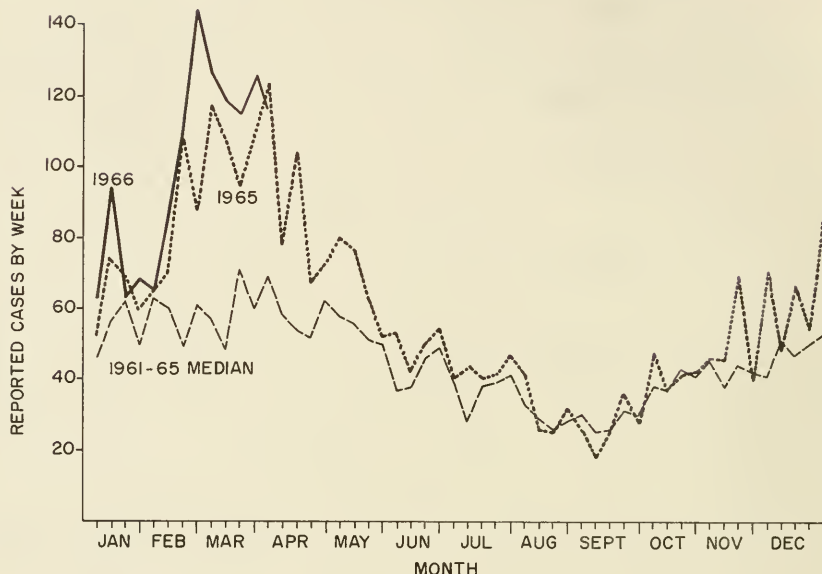
CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	13th WEEK ENDED		MEDIAN 1961-1965	CUMULATIVE, FIRST 13 WEEKS		
	APRIL 2, 1966	APRIL 3, 1965		1966	1965	MEDIAN 1961-1965
Aseptic meningitis	26	44	29	367	379	290
Brucellosis	3	5	6	46	50	78
Diphtheria	—	6	5	34	57	85
Encephalitis, primary:						
Arthropod-borne & unspecified	23	29	—	297	389	—
Encephalitis, post-infectious	14	17	—	209	187	—
Hepatitis, serum	27	816	845	9,206	10,311	13,805
Hepatitis, infectious	646					
Measles (rubeola)	9,133	10,949	15,679	94,133	116,815	145,414
Poliomyelitis, Total (including unspecified)	1	3	3	6	6	38
Paralytic	—	1	1	5	4	33
Nonparalytic	—	2	—	—	2	—
Meningococcal infections, Total	116	122	69	1,302	1,134	760
Civilian	100	104	—	1,125	1,045	—
Military	16	18	—	177	89	—
Rubella (German measles)	1,628	—	—	17,182	—	—
Streptococcal sore throat & Scarlet fever	14,077	11,683	9,700	154,368	146,284	129,780
Tetanus	1	8	—	25	50	—
Tularemia	1	2	—	47	54	—
Typhoid fever	8	11	5	68	89	89
Typhus, tick-borne (Rky. Mt. Spotted fever)	—	—	—	9	6	—
Rabies in Animals	133	142	88	1,089	1,318	1,011

NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax	2	Botulism	1
Leptospirosis	9	Trichinosis: Iowa-1	26
Malaria: NY City-1, Ill.-1, Ga.-1, S.C.-1, Minn.-3, Ariz.-2, P.R.-1	76	Rabies in Man:	—
Psittacosis: Texas-1	13	Rubella, Congenital Syndrome	9
Typhus, murine	4		

Figure 1
MENINGOCOCCAL INFECTIONS BY WEEK OF REPORT
1965, 1966 AND MEDIAN, 1961-65
UNITED STATES



EPIDEMIOLOGIC NOTES AND REPORTS PARAGONIMIASIS - Arkansas

A case of paragonimiasis in a 4-year-old Korean girl living in the United States has been reported recently by the Arkansas State Health Department.

Prior to leaving Korea in August 1965, the child had been diagnosed as suffering from primary pulmonary tuberculosis. This diagnosis had been made on X-ray findings following a positive reaction to a tuberculin test.

After arriving in the United States, the child was admitted to hospital in December 1964 for the treatment of tuberculosis. At that time, further studies showed that tuberculin tests gave negative results, as did a series of skin tests with histoplasmin, blastomycin and coccidioidin antigens. Also, despite X-ray findings of right middle lobe infiltration indicative of pulmonary tuberculosis, smears and cultures obtained from gastric aspirates and bronchial washings were all negative for acid-fast bacilli. Nevertheless, anti-tuberculosis treatment was started and, on discharge from hospital in March 1965, the child was followed up as an out-patient.

Despite continuing medication for tuberculosis, X-ray examinations showed a developing cavitory lesion in the right middle lobe and, in August 1965, the child was readmitted to hospital for a further assessment of her condition. Clinically the child had remained asymptomatic since discharge from hospital in March and was apparently in good health. Skin reactions were again negative for tuberculosis; there was still no bacteriological confirmation of the disease. On this occasion, however, an examination of her sputum revealed ova of *Paragonimus westermani*.

(Reported by Dr. William L. Bunch, Jr., Acting Director, Communicable Disease Control; Dr. J.T. Herron, State Health Officer; and Mr. William B. Hope, Director of Laboratories, all of the Arkansas State Board of Health; and Dr. W. Duane Jones, Medical Director, Arkansas Tuberculosis Sanatorium.)

Editorial Comment:

Paragonimiasis is extensively endemic in certain countries in the Far East, particularly Korea, Japan, Taiwan, the Philippines and parts of mainland China; there are scattered foci in India, Africa and South America. The disease does not occur naturally in the U.S.A.

The disease in man is acquired through eating uncooked or lightly cooked infected freshwater crabs or crayfish, which are the second intermediate hosts; man and certain other mammals are the reservoir hosts with some species of freshwater snails being the first intermediate hosts. Infected reservoir hosts excrete the fluke ova in the sputum or feces.

The life of the adult fluke in man lasts about 6 years. In the absence of fresh infections the disease gradually

subsides and in light or moderate infestations, the prognosis is good. Recent developments in chemotherapy indicate that bithionol is an effective agent in the cure of paragonimiasis.

References:

Beeson, Paul B., and McDermott, Walsh (eds.): Cecil-Loeb Textbook of Medicine. W. B. Saunders Company, Philadelphia & London, 1963, vol. 1, p. 414.

Gordon, John E. (ed.): Control of Communicable Diseases in Man. A P H A, New York, 1965, p. 160.

Yokogawa, Munee, and others: Chemotherapy of paragonimiasis with bithionol. *Amer J Trop Med* 12:559, 1963.

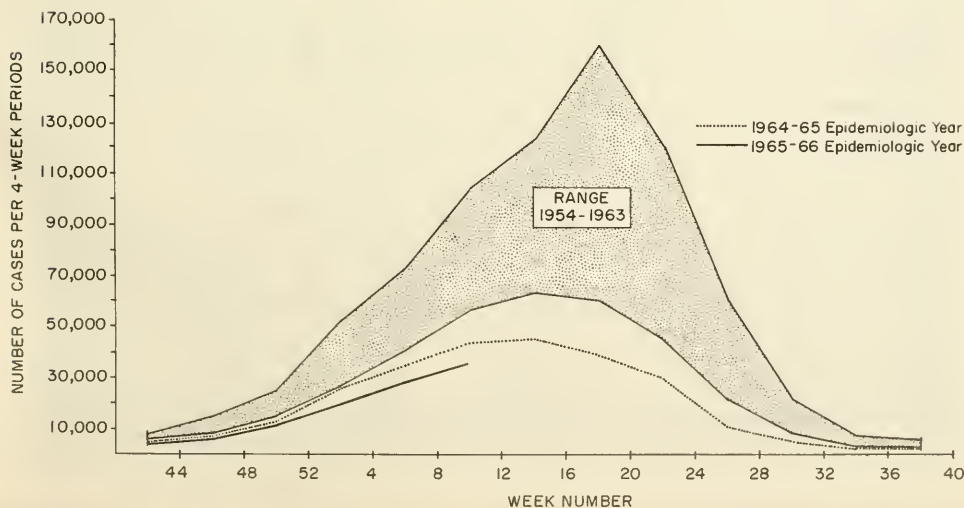
CURRENT TRENDS - MEASLES

During the 4-week period ending March 26, 1966, there were 36,672 cases of measles reported, an increase of 8,438 cases over the total notified during the preceding 4-week period. The comparable total for the third 4-week period in 1965 was 44,351, which is 7,679 more than have been reported in 1966 (Figure 2). Eleven States reported

more than 1,000 cases during the last 4 weeks: Wisconsin (6,405), Texas (4,413), Illinois (2,678), New York (2,550), California (2,288), Tennessee (2,280), Michigan (2,223), Ohio (1,325), Arizona (1,206), Iowa (1,103), and West Virginia (1,007).

(Reported by the Childhood Virus Disease Unit, CDC.)

Figure 2
MEASLES REPORTED BY FOUR-WEEK PERIODS - UNITED STATES
EPIDEMIOLOGIC YEARS, 1964-65 AND 1965-66
COMPARED WITH 10-YEAR PERIOD, 1954-1963



CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
APRIL 2, 1966 AND APRIL 3, 1965 (13th WEEK)

AREA	ASEPTIC MENINGITIS		BRUCELLOSIS	ENCEPHALITIS			DIPHTHERIA		HEPATITIS		
				Primary including unsp. cases	Post- Infectious	Serum			Infectious	Both Types	
	1966	1965					1966	1966			1965
UNITED STATES...	26	44	3	23	29	14	-	6	27	646	816
NEW ENGLAND.....	1	2	-	1	3	1	-	-	2	33	52
Maine.....	-	-	-	-	-	-	-	-	-	4	8
New Hampshire.....	-	-	-	-	-	-	-	-	-	1	3
Vermont.....	-	-	-	-	-	-	-	-	-	-	1
Massachusetts.....	1	1	-	1	3	-	-	-	1	12	25
Rhode Island.....	-	1	-	-	-	1	-	-	1	9	11
Connecticut.....	-	-	-	-	-	-	-	-	-	7	4
MIDDLE ATLANTIC.....	4	5	-	6	14	2	-	-	11	102	127
New York City.....	3	2	-	3	9	-	-	-	4	20	33
New York, Up-State.....	1	3	-	3	3	2	-	-	4	26	42
New Jersey.....	-	-	-	-	1	-	-	-	3	14	31
Pennsylvania.....	-	-	-	-	1	-	-	-	-	42	21
EAST NORTH CENTRAL...	2	5	-	4	4	3	-	-	3	116	121
Ohio.....	-	-	-	1	1	-	-	-	-	17	38
Indiana.....	-	-	-	-	-	-	-	-	-	19	7
Illinois.....	-	2	-	1	1	1	-	-	1	14	35
Michigan.....	1	1	-	2	-	2	-	-	2	64	35
Wisconsin.....	1	2	-	-	2	-	-	-	-	2	6
WEST NORTH CENTRAL...	-	1	1	1	-	2	-	1	-	37	70
Minnesota.....	-	1	-	-	1	-	-	-	-	6	7
Iowa.....	-	-	-	1	-	1	-	-	-	6	25
Missouri.....	-	-	-	-	-	-	-	-	-	20	7
North Dakota.....	-	-	-	-	-	-	-	-	-	-	-
South Dakota.....	-	-	-	-	-	-	-	1	-	-	-
Nebraska.....	-	-	1	-	-	-	-	-	-	1	2
Kansas.....	-	-	-	-	-	-	-	-	-	4	29
SOUTH ATLANTIC.....	2	3	1	2	1	1	-	-	-	70	127
Delaware.....	1	-	-	1	-	-	-	-	-	3	3
Maryland.....	-	-	-	-	-	-	-	-	-	17	31
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	-	1
Virginia.....	-	-	1	-	-	-	-	-	-	13	51
West Virginia.....	-	-	-	-	-	-	-	-	-	3	12
North Carolina.....	-	-	-	-	1	-	-	-	-	2	3
South Carolina.....	-	-	-	-	-	-	-	-	-	-	1
Georgia.....	-	-	-	-	-	-	-	-	-	10	1
Florida.....	1	3	-	1	-	1	-	-	-	22	24
EAST SOUTH CENTRAL...	6	4	-	1	-	1	-	3	-	72	32
Kentucky.....	2	1	-	-	-	-	-	-	-	22	4
Tennessee.....	-	-	-	1	-	1	-	-	-	37	17
Alabama.....	2	3	-	-	-	-	-	3	-	6	3
Mississippi.....	2	-	-	-	-	-	-	-	-	7	8
WEST SOUTH CENTRAL...	1	6	-	2	1	2	-	2	4	63	67
Arkansas.....	-	1	-	-	1	-	-	-	-	16	9
Louisiana.....	-	1	-	2	-	1	-	-	4	11	6
Oklahoma.....	-	3	-	-	-	-	-	-	-	3	1
Texas.....	1	1	-	-	-	1	-	2	-	33	51
MOUNTAIN.....	3	3	-	2	1	-	-	-	-	29	62
Montana.....	-	-	-	-	-	-	-	-	-	2	4
Idaho.....	-	-	-	-	-	-	-	-	-	3	23
Wyoming.....	-	-	-	-	-	-	-	-	-	3	-
Colorado.....	-	2	-	-	-	-	-	-	-	4	21
New Mexico.....	-	-	-	-	-	-	-	-	-	5	3
Arizona.....	2	1	-	1	-	-	-	-	-	5	6
Utah.....	-	-	-	1	1	-	-	-	-	5	5
Nevada.....	1	-	-	-	-	-	-	-	-	2	-
PACIFIC.....	7	15	1	4	5	2	-	-	7	124	158
Washington.....	-	1	-	-	-	-	-	-	1	5	14
Oregon.....	-	2	-	-	2	-	-	-	-	11	13
California.....	7	12	1	4	3	2	-	-	6	102	127
Alaska.....	-	-	-	-	-	-	-	-	-	3	4
Hawaii.....	-	-	-	-	-	-	-	-	-	3	-
Puerto Rico.....	1	-	-	-	-	-	-	1	-	39	26

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
APRIL 2, 1966 AND APRIL 3, 1965 (13th WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			POLIOMYELITIS				RUBELLA
	1966	Cumulative		1966	Cumulative		Total		Paralytic		
		1966	1965		1966	1965	1966	1965	1966	Cumulative 1966	
UNITED STATES...	9,133	94,133	116,815	116	1,302	1,134	1	3	1	5	1,628
NEW ENGLAND.....	110	1,138	23,845	6	64	56	-	-	-	-	225
Maine.....	4	143	1,874	-	6	7	-	-	-	-	11
New Hampshire.....	-	12	309	-	7	3	-	-	-	-	-
Vermont.....	3	166	358	-	2	-	-	-	-	-	5
Massachusetts.....	56	432	13,280	2	26	20	-	-	-	-	92
Rhode Island.....	5	53	2,661	1	5	10	-	-	-	-	10
Connecticut.....	42	332	5,363	3	18	16	-	-	-	-	107
MIDDLE ATLANTIC.....	742	11,816	4,520	5	132	152	-	-	-	-	143
New York City.....	385	6,016	412	-	23	23	-	-	-	-	48
New York, Up-State.....	71	1,204	1,572	2	32	35	-	-	-	-	93
New Jersey.....	93	1,295	800	2	41	52	-	-	-	-	-
Pennsylvania.....	193	3,301	1,736	1	36	42	-	-	-	-	2
EAST NORTH CENTRAL...	3,048	36,447	21,185	16	188	138	-	-	-	-	512
Ohio.....	345	2,700	4,638	4	51	35	-	-	-	-	42
Indiana.....	224	2,267	891	5	29	18	-	-	-	-	74
Illinois.....	368	7,650	651	3	38	37	-	-	-	-	91
Michigan.....	671	5,854	11,187	3	54	25	-	-	-	-	84
Wisconsin.....	1,440	17,976	3,818	1	16	23	-	-	-	-	221
WEST NORTH CENTRAL...	388	4,287	8,977	4	67	61	-	-	-	-	53
Minnesota.....	45	1,193	270	2	15	13	-	-	-	-	2
Iowa.....	259	2,055	4,952	-	11	1	-	-	-	-	44
Missouri.....	24	303	1,245	2	27	32	-	-	-	-	1
North Dakota.....	60	691	2,261	-	3	3	-	-	-	-	6
South Dakota.....	-	3	54	-	2	2	-	-	-	-	-
Nebraska.....	-	42	195	-	3	4	-	-	-	-	-
Kansas.....	NN	NN	NN	-	6	6	-	-	-	-	-
SOUTH ATLANTIC.....	929	7,456	14,370	19	214	229	1	-	1	1	170
Delaware.....	8	99	251	1	2	3	-	-	-	-	3
Maryland.....	88	1,188	502	2	21	21	-	-	-	-	9
Dist. of Columbia..	13	295	15	3	6	4	-	-	-	-	-
Virginia.....	148	697	2,101	6	29	26	-	-	-	-	35
West Virginia.....	270	2,987	9,139	-	8	15	-	-	-	-	32
North Carolina.....	6	135	160	-	41	35	-	-	-	-	-
South Carolina.....	9	333	405	3	30	34	-	-	-	-	31
Georgia.....	2	152	397	2	36	32	1	-	1	1	-
Florida.....	385	1,570	1,400	2	43	59	-	-	-	-	60
EAST SOUTH CENTRAL...	853	10,644	6,683	10	111	71	-	-	-	-	139
Kentucky.....	201	3,391	778	2	53	26	-	-	-	-	55
Tennessee.....	579	6,025	4,043	6	33	21	-	-	-	-	79
Alabama.....	15	749	1,356	2	19	18	-	-	-	-	5
Mississippi.....	58	479	506	-	6	6	-	-	-	-	-
WEST SOUTH CENTRAL...	1,516	9,928	16,114	18	205	185	-	-	-	3	2
Arkansas.....	-	322	781	1	12	10	-	-	-	-	-
Louisiana.....	6	59	35	15	84	100	-	-	-	-	-
Oklahoma.....	14	179	102	-	7	16	-	-	-	1	-
Texas.....	1,496	9,368	15,196	2	102	59	-	-	-	2	2
MOUNTAIN.....	491	4,845	9,299	4	41	42	-	2	-	-	117
Montana.....	41	729	2,458	-	3	-	-	-	-	-	-
Idaho.....	27	537	1,346	-	1	7	-	-	-	-	16
Wyoming.....	2	72	463	-	1	2	-	-	-	-	-
Colorado.....	58	550	1,680	1	22	9	-	-	-	-	15
New Mexico.....	52	236	335	1	6	6	-	-	-	-	-
Arizona.....	275	2,558	340	2	7	11	-	2	-	-	82
Utah.....	36	156	2,603	-	-	5	-	-	-	-	4
Nevada.....	-	7	74	-	1	2	-	-	-	-	-
PACIFIC.....	1,056	7,572	11,822	34	280	200	-	1	-	1	267
Washington.....	132	1,627	3,631	3	16	14	-	-	-	1	84
Oregon.....	78	609	1,764	3	12	16	-	-	-	-	39
California.....	835	5,257	5,115	28	237	164	-	1	-	-	131
Alaska.....	2	26	94	-	12	4	-	-	-	-	5
Hawaii.....	9	53	1,218	-	3	2	-	-	-	-	8
Puerto Rico.....	145	1,101	734	1	2	3	-	-	-	-	1

Morbidity and Mortality Weekly Report

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
APRIL 2, 1966 AND APRIL 3, 1965 (13th WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1966	1966	Cum. 1966	1966	Cum. 1966	1966	Cum. 1966	1966	Cum. 1966	1966	Cum. 1966
UNITED STATES...	14,077	1	25	1	47	8	68	-	9	133	1,089
NEW ENGLAND.....	1,893	-	2	-	1	1	3	-	-	4	12
Maine.....	195	-	-	-	-	-	-	-	-	-	87
New Hampshire.....	40	-	-	-	-	-	-	-	-	2	5
Vermont.....	63	-	-	-	-	-	-	-	-	2	7
Massachusetts.....	326	-	2	-	1	-	-	-	-	-	-
Rhode Island.....	106	-	-	-	-	-	-	-	-	-	-
Connecticut.....	1,163	-	-	-	-	1	3	-	-	-	-
MIDDLE ATLANTIC.....	537	-	4	-	-	2	16	-	1	9	82
New York City.....	15	-	3	-	-	1	7	-	-	-	-
New York, Up-State.....	410	-	-	-	-	-	3	-	-	7	77
New Jersey.....	NN	-	-	-	-	-	3	-	-	-	-
Pennsylvania.....	112	-	1	-	-	1	3	-	1	2	5
EAST NORTH CENTRAL...	1,884	-	-	1	12	2	11	-	-	22	153
Ohio.....	191	-	-	-	3	-	5	-	-	5	28
Indiana.....	516	-	-	1	3	1	2	-	-	-	12
Illinois.....	274	-	-	-	3	1	1	-	-	1	12
Michigan.....	497	-	-	-	-	-	1	-	-	-	14
Wisconsin.....	406	-	-	-	1	-	2	-	-	4	241
WEST NORTH CENTRAL...	754	-	1	-	3	-	7	-	1	31	44
Minnesota.....	18	-	-	-	-	-	-	-	-	4	61
Iowa.....	279	-	-	-	-	-	2	-	-	10	95
Missouri.....	11	-	1	-	1	-	4	-	-	1	4
North Dakota.....	349	-	-	-	-	-	-	-	-	2	23
South Dakota.....	11	-	-	-	-	-	-	-	-	-	6
Nebraska.....	14	-	-	-	-	-	-	-	-	3	8
Kansas.....	72	-	-	-	2	-	1	-	1	-	-
SOUTH ATLANTIC.....	1,680	1	7	-	6	3	13	-	6	13	148
Delaware.....	71	-	-	-	-	-	-	-	-	-	-
Maryland.....	192	-	-	-	-	2	4	-	-	-	-
Dist. of Columbia..	12	-	-	-	-	-	-	-	-	-	-
Virginia.....	584	-	-	-	2	1	6	-	2	7	102
West Virginia.....	306	-	-	-	1	-	1	-	-	4	19
North Carolina.....	20	-	-	-	2	-	1	-	3	-	-
South Carolina.....	243	-	1	-	1	-	-	-	-	-	-
Georgia.....	6	1	3	-	-	-	-	-	1	-	15
Florida.....	246	-	3	-	-	-	1	-	-	2	12
EAST SOUTH CENTRAL...	2,238	-	1	-	12	-	5	-	-	13	159
Kentucky.....	223	-	-	-	2	-	1	-	-	2	21
Tennessee.....	1,793	-	-	-	6	-	3	-	-	11	135
Alabama.....	109	-	1	-	4	-	1	-	-	-	3
Mississippi.....	113	-	-	-	-	-	-	-	-	-	-
WEST SOUTH CENTRAL...	1,105	-	7	-	11	-	3	-	1	33	224
Arkansas.....	1	-	-	-	9	-	-	-	1	5	29
Louisiana.....	-	-	4	-	1	-	1	-	2	14	41
Oklahoma.....	58	-	-	-	-	-	1	-	-	11	140
Texas.....	1,046	-	3	-	1	-	1	-	-	15	-
MOUNTAIN.....	2,049	-	-	-	1	-	6	-	-	2	14
Montana.....	105	-	-	-	-	-	-	-	-	-	1
Idaho.....	185	-	-	-	-	-	-	-	-	-	-
Wyoming.....	66	-	-	-	-	-	-	-	-	-	-
Colorado.....	1,106	-	-	-	-	-	2	-	-	-	1
New Mexico.....	277	-	-	-	-	-	-	-	-	-	3
Arizona.....	63	-	-	-	-	-	1	-	-	2	9
Utah.....	246	-	-	-	1	-	3	-	-	-	-
Nevada.....	1	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	1,937	-	3	-	1	-	4	-	-	6	56
Washington.....	926	-	-	-	-	-	-	-	-	-	-
Oregon.....	30	-	-	-	-	-	1	-	-	-	-
California.....	855	-	3	-	1	-	3	-	-	6	56
Alaska.....	83	-	-	-	-	-	-	-	-	-	-
Hawaii.....	43	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	11	1	10	-	-	-	3	-	-	1	2

Morbidity and Mortality Weekly Report

115

Week No.

DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED APRIL 2, 1966

13

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes	Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over				All Ages	65 years and over		
NEW ENGLAND:	739	464	35	34	SOUTH ATLANTIC:	1,198	650	50	74
Boston, Mass.-----	240	141	7	11	Atlanta, Ga.-----	130	64	5	6
Bridgeport, Conn.-----	44	26	4	2	Baltimore, Md.-----	260	125	14	20
Cambridge, Mass.-----	34	24	-	-	Charlotte, N. C.-----	41	21	1	3
Eall River, Mass.-----	23	18	-	-	Jacksonville, Fla.-----	67	43	3	4
Hartford, Conn.-----	57	27	2	6	Miami, Fla.-----	79	42	-	5
Lowell, Mass.-----	25	16	1	2	Norfolk, Va.-----	49	22	6	2
Lynn, Mass.-----	23	21	-	-	Richmond, Va.-----	84	48	1	10
New Bedford, Mass.-----	25	20	1	-	Savannah, Ga.-----	39	15	-	1
New Haven, Conn.-----	48	29	1	2	St. Petersburg, Fla.-----	87	67	3	2
Providence, R. I.-----	63	37	6	4	Tampa, Fla.-----	87	60	5	2
Somerville, Mass.-----	17	13	-	-	Washington, O. C.-----	236	126	10	16
Springfield, Mass.-----	48	29	6	2	Wilmington, Del.-----	39	17	2	3
Waterbury, Conn.-----	41	28	1	3					
Worcester, Mass.-----	51	35	6	2	EAST SOUTH CENTRAL:	617	329	39	41
MIDDLE ATLANTIC:	3,482	2,070	162	182	Birmingham, Ala.-----	102	52	3	4
Albany, N. Y.-----	38	18	-	4	Chattanooga, Tenn.-----	45	19	3	5
Allentown, Pa.-----	35	23	1	1	Knoxville, Tenn.-----	28	17	1	3
Buffalo, N. Y.-----	156	91	5	10	Louisville, Ky.-----	135	75	12	19
Camden, N. J.-----	56	28	1	3	Memphis, Tenn.-----	159	93	7	4
Elizabeth, N. J.-----	30	21	3	2	Mobile, Ala.-----	33	14	2	2
Erie, Pa.-----	55	32	3	4	Montgomery, Ala.-----	27	12	5	2
Jersey City, N. J.-----	76	42	7	4	Nashville, Tenn.-----	88	47	6	2
Newark, N. J.-----	114	63	10	11	WEST SOUTH CENTRAL:	1,180	611	67	62
New York City, N. Y.-----	1,846	1,109	77	88	Austin, Tex.-----	41	29	6	2
Paterson, N. J.-----	49	24	2	6	Baton Rouge, La.-----	41	24	6	-
Philadelphia, Pa.-----	453	275	17	18	Corpus Christi, Tex.-----	30	15	-	2
Pittsburgh, Pa.-----	188	103	6	9	Dallas, Tex.-----	144	61	7	11
Reading, Pa.-----	45	30	4	1	El Paso, Tex.-----	39	19	4	4
Rochester, N. Y.-----	106	58	14	10	Eort Worth, Tex.-----	92	57	1	2
Schenectady, N. Y.-----	24	17	2	-	Houston, Tex.-----	248	120	12	9
Scranton, Pa.-----	43	25	2	-	Little Rock, Ark.-----	52	31	6	2
Syracuse, N. Y.-----	60	40	5	3	New Orleans, La.-----	181	87	10	12
Trenton, N. J.-----	45	30	3	2	Oklahoma City, Okla.-----	72	39	6	2
Utica, N. Y.-----	27	20	2	1	San Antonio, Tex.-----	114	60	6	11
Yonkers, N. Y.-----	37	21	1	2	Shreveport, La.-----	57	27	6	4
EAST NORTH CENTRAL:	2,620	1,476	121	147	Tulsa, Okla.-----	69	42	3	1
Akron, Ohio-----	57	33	-	3	MOUNTAIN:	501	319	45	19
Canton, Ohio-----	34	19	-	6	Albuquerque, N. Mex.-----	67	42	10	2
Chicago, Ill.-----	828	422	41	52	Colorado Springs, Colo.-----	23	15	3	1
Cincinnati, Ohio-----	152	94	5	6	Denver, Colo.-----	158	106	9	3
Cleveland, Ohio-----	233	130	11	10	Ogden, Utah-----	13	9	-	-
Columbus, Ohio-----	133	70	2	8	Phoenix, Ariz.-----	98	57	4	6
Dayton, Ohio-----	70	40	9	7	Pueblo, Colo.-----	21	16	6	2
Detroit, Mich.-----	356	211	18	17	Salt Lake City, Utah-----	57	38	7	2
Evansville, Ind.-----	44	33	3	1	Tucson, Ariz.-----	64	36	6	3
Flint, Mich.-----	45	25	-	3	PACIFIC:	2,127	1,363	100	81
Eort Wayne, Ind.-----	38	24	8	1	Berkeley, Calif.-----	31	23	2	2
Gary, Ind.-----	23	15	3	-	Fresno, Calif.-----	41	21	1	2
Grand Rapids, Mich.-----	47	32	4	3	Glendale, Calif.-----	48	35	4	1
Indianapolis, Ind.-----	153	86	6	9	Honolulu, Hawaii-----	48	28	4	3
Madison, Wis.-----	26	9	-	7	Long Beach, Calif.-----	117	64	3	3
Milwaukee, Wis.-----	121	75	2	2	Los Angeles, Calif.-----	756	480	37	24
Peoria, Ill.-----	33	17	3	2	Oakland, Calif.-----	102	68	4	1
Rockford, Ill.-----	36	20	2	2	Pasadena, Calif.-----	45	31	1	3
South Bend, Ind.-----	31	19	2	1	Portland, Oreg.-----	177	125	6	6
Toledo, Ohio-----	102	69	1	6	Sacramento, Calif.-----	70	47	-	4
Youngstown, Ohio-----	58	41	1	1	San Diego, Calif.-----	117	77	12	7
WEST NORTH CENTRAL:	955	610	43	47	San Francisco, Calif.-----	207	121	2	4
Des Moines, Iowa-----	72	49	1	7	San Jose, Calif.-----	47	31	5	2
Duluth, Minn.-----	15	11	-	-	Seattle, Wash.-----	184	110	13	12
Kansas City, Kans.-----	42	24	6	3	Spokane, Wash.-----	79	59	-	3
Kansas City, Mo.-----	131	83	4	5	Tacoma, Wash.-----	58	43	6	4
Lincoln, Nebr.-----	31	24	1	-	Total	13,419	7,892	662	687
Minneapolis, Minn.-----	138	93	4	6	Cumulative Totals				
Omaha, Nebr.-----	88	58	2	7	including reported corrections for previous weeks				
St. Louis, Mo.-----	291	170	15	9	All Causes, All Ages-----	173,839			
St. Paul, Minn.-----	89	59	6	4	All Causes, Age 65 and over-----	101,204			
Wichita, Kans.-----	58	37	4	6	Pneumonia and Influenza, All Ages-----	8,634			
					All Causes, Under 1 Year of Age-----	8,906			

*Estimate - based on average percent of divisional total.

EPIDEMIOLOGICAL NOTES AND REPORTS

DIPHTHERIA - Detroit, Michigan

A fatal case of diphtheria in a 4-year-old boy was diagnosed post-mortem on February 1, 1966, in Detroit, Michigan. The child had been ill for 4 days with sore throat, mild cough and other symptoms of an upper respiratory infection, but on the evening of the fifth day he had become weak, limp and lethargic. He was taken to a hospital where he developed respiratory distress and died in the emergency room. At autopsy a pharyngeal membrane was noted, cultures of which were positive for virulent *Corynebacterium diphtheriae*.

The investigation conducted by the Detroit City Health Department uncovered eight asymptomatic carriers of *C. diphtheriae*, all of whom reside in the lower socio-economic area of the city. In the home where the fatal case had lived, cultures of specimens from the father and an unrelated 22-year-old boy were positive for *C. diphtheriae*. The four older siblings of the fatal case attend a neighborhood school which had been involved in the large Detroit diphtheria epidemic of 1956-57.* Nose and throat cultures of all the students who attend the school revealed that one 6-year-old boy, who lives 1½ blocks from the index family, was a carrier of diphtheria. Four of his 10 siblings also gave positive cultures. There was no history of direct contact among members of the two families. The eighth asymptomatic carrier was discovered through a routine throat culture which was positive for *C. diphtheriae*. This 15-year-old boy had had diphtheria during the 1956 diphtheria epidemic in Detroit. All asymptomatic carriers were treated with diphtheria toxoid and penicillin until all laboratory tests were negative.

Through the immunization program sponsored by the Health Department, 99 percent of the children attending the neighborhood school received diphtheria toxoid. Clinics were organized to immunize the general public in the area involved; during the first three evenings approximately 5,000 people received diphtheria toxoid. The immunization program has been extended to clinics and schools throughout the city.

(Reported by Dr. John J. Hanlon, City-County Health Commissioner, Detroit-Wayne County, Michigan; Dr. Paul T. Salchow, Medical Director, Herman Kiefer Infectious Disease Hospital, Detroit, Michigan; and an EIS Officer and WHO Fellow, CDC.)

Reference:

*Moore, Helen A.: Diphtheria in the United States in 1956. Public Health Report 73:439, May 1955.

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 15,600, IS PUBLISHED AT THE COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

CHIEF, COMMUNICABLE DISEASE CENTER
CHIEF, EPIDEMIOLOGY BRANCH
ACTING CHIEF, STATISTICS SECTION

DAVID J. SENCER, M.D.
A. D. LANGMUIR, M.D.
IDA L. SHERMAN, M.S.

EDITOR: MMWR

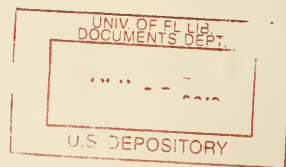
D. J. M. MACKENZIE, M.B.,
F.R.C.P.E.

IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE CDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

U. S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
Communicable Disease Center
Atlanta, Georgia 30333
Official Business



POSTAGE AND FEES PAID
U. S. DEPARTMENT OF H. E. W.